ELSEVIER

Engineering Geology 53 (1999) 409–410

ENGINEERING GEOLOGY

Contents Volume 53

Research Papers

Evaluation of the quality of a granite quarry
J. Taboada, A. Vaamonde and A. Saavedra 1

Calcretic and ferricretic duricrusts of the Thar Desert, India: their geotechnical appraisal as a road paving aggregate
D. Ramakrishnan and K.C. Tiwari 13

Flake failure: a new mass-movement mechanism affecting peat beds eroded intertidally, Severn Estuary, southwest Britain
J.R.L. Allen 23

Seismic survey for detecting scour depths downstream of the Srisailam dam, Andhra Pradesh, India
B.M.R. Gowda, N. Ghosh, R.S. Wadhwa, M.S. Chaudhari, V. Chandrasekhar and C. Subbarao 35

Geotechnical study of the optimum design of the Chandmari Coppermine, Rajasthan, India
V.K. Singh and T.N. Singh 47

The petrographic and geomechanical properties of some sandstones from the Newspaper Member of the Natal Group near Durban, South Africa
F.G. Bell and P. Lindsay 57

Scale up of two-dimensional conductivity tensor for heterogenous fracture networks
X. Zhang and D.J. Sanderson 83

Book Reviews

Computer Methods and Advances in Geomechanics, by J.-X. Yuan (Ed.) — J.T. Christian 101

Issues of Environmental Geology: A British Perspective, by M.R. Bennett and P. Doyle (Eds.) — T. Waltham 103

Special Issue

Geoenvironmental Engineering

R.N. Yong and H.R. Thomas (Editors)

Preface
R.N. Yong and H.R. Thomas 105

Problems of clay desiccation in composite lining systems
P.J. Hewitt and L.K. Philip 107

A four terminal measurement system for measuring the dielectric properties of clay at low frequencies
M. Carrier and K. Soga 115

The use of dynamic (window) sampling in the site investigation of potentially contaminated ground
C.S. Eccles and R.P. Redford 125

Degree of pollution for marine sediments
M. Fukue, T. Nakamura, Y. Kato and S. Yamasaki 131

Lead removal from contaminated marine clay by electrokinetic soil decontamination
H.I. Chung and B.H. Kang 139

Chemical osmosis in compacted clayey material and the prediction of water transport
Th.J.S. Keijzer, P.J. Kleingeld and J.P.G. Loch 151

Ground engineering spoil: practices of disposal and reuse
J.C.T. Kwan and F.M. Jardine 161

The migration of contaminants through geosynthetic fabric containers utilized in dredging operations
H. Moo-Young, T.E. Myers, D. Townsend and C. Ochola 167

A case study of the management and remediation of soil contaminated with polychlorinated biphenyls
G. Norris, Z. Al-Dhahir, J. Birnstingl, S.J. Plant, S. Cui and P. Mayell 177

Permeability of compacted colliery spoil — a parametric study

C.C. Smith, J.C. Cripps and M.J. Wymer 187
Pollution transport studies using an in-situ fibre optic photometric sensor
A.C.J. Treadaway, R.J. Lynch and M.D. Bolton 195
Resistivity imaging of soil during electrokinetic transport
L.J. West, D.I. Stewart, A.M. Binley and B. Shaw 205
Investigation of lime stabilised contaminated material
J.M. Reid and A.H. Brookes 217

Publisher's Note 233
Discrete element modelling of fragmentable geomaterials with size dependent strength
A.P.S. Selvadurai and K. Sepehr 235
Mechanics and fluid transport in a degradable discontinuity
A.P.S. Selvadurai and T.S. Nguyen 243
Scale dependency in rock strength
R.A. Adey and R. Pusch 251

Review
A second review of the international status of engineering geology - encompassing hydrogeology, environmental geology and the applied geosciences
A.W. Hatheway and G.M. Reeves 259

Research Papers
The role of rainfall in the landslide hazard: the case of the Avigliano urban area (Southern Apennines, Italy)
M. Polemio and F. Sdao 297
Mechanism of creep movement caused by landslide activity and underground erosion in crystalline schist, Shikoku Island, southwestern Japan
G. Furuya, K. Sassa, H. Hiura and H. Fukuoka 311
The factors controlling the expansive nature of the soils and rocks of northern Oman
A.A. Al-Rawas 327
Swelling–shrinkage properties and soil improvement of compacted expansive soil, Ning-Liang Highway, China
Y. Du, S. Li and S. Hayashi 351
Stress–strain behaviour of a loosely compacted volcanic-derived soil and its significance to rainfall-induced fill slope failures
F. Dai, C.F. Lee, S. Wang and Y. Feng 359
Potential of marble dust to stabilise red tropical soils for road construction
C.O. Okagbue and T.U.S. Onyeobi 371
An engineering geological appraisal of the Lakhwar Dam, Garhwal Himalaya, India
S. Sharma, T. Raghuvanshi and A. Sahai 381

Discussion
There is indeed such a thing as 'karstic' A rebuttal
A.W. Hatheway 399

Book Reviews
Fundamentals of Engineering Programming with C and Fortran, by Harley R. Myler — J.T. Christian 401
General Geocryology, by E.D. Yershov — R.N. Yong 402

Author Index 405
Subject Index 407
Contents Volume 53 409